Unexpected link found between 2 schizophrenia risk proteins

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Behavioral alterations in MAP6−/− and Kv3.1−/− mice. Adult (3–6 months old) WT B6 (black bars), MAP6−/− (red bars), and Kv3.1−/− (green bars) mice were used in a series of behavioral assays. Each group contained approximately half male and half female mice. a Example traces in the elevated plus maze (EPM) with open arms indicated in red and closed arms in dark blue. b Summaries of open arm time (100 × T_{Open}/(T_{Open} + T_{Closed}); WT control, MAP6−/− p = 0.001, Kv3.1−/− p = 0.029) (left) and total travel distance (cm; WT control, MAP6−/− p = 0.088, Kv3.1−/− p = 0.003)(right) in EPM. c Example traces in the open field test
with blue dashed lines to indicate the center. d Summaries of the center time percentage \((100 \times T_{\text{Center}}/T_{\text{Total}})\) (left) and the total travel distance (cm; WT control, MAP6\(^{-/-}\) \(p = 0.045\), Kv3.1\(^{-/-}\) \(p = 0.002\)) (right) in the open field test. e Example traces in the novel object recognition (NOR) test with the blue triangles as the familiar objects (f) and the red circles as the novel objects (n). f Summary of the discrimination ratio, \((T_n - T_f)/(T_n + T_f)\). WT control, MAP6\(^{-/-}\) \(p = 0.044\), Kv3.1\(^{-/-}\) \(p = 0.096\). g Summary of the rotarod test. In trial #3, MAP6\(^{-/-}\) \(p = 0.041\). In trial #4, MAP6\(^{-/-}\) \(p = 0.001\). h Summary of the balance beam test. i Summary of spontaneous alternation in the Y maze test (overall \(p = 0.801\)). Each result is provided as mean ± SEM. Mouse numbers are provided in the figure. One-Way ANOVA followed by Dunnett’s test: *, \(p \)